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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/034,772	12/19/2001	Rajesh S. Agarwalla	AUS920010795US1	1225
65362 7590 03/03/2008 HAMILTON & TERRILE, LLP IBM Austin P.O. BOX 203518 AUSTIN, TX 78720			EXAMINER WANG, LIANG CHE A	
			ART UNIT 2153	PAPER NUMBER
			MAIL DATE 03/03/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/034,772

Applicant(s)

AGARWALLA ET AL.

Examiner

Liangche A. WANG

Art Unit

2153

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 August 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-105 is/are pending in the application.
- 4a) Of the above claim(s) 7-21, 28-31, 38-52, 59-62, 69-83, 90-105 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 22-27, 32-37, 53-58, 63-68 and 84-89 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date multiple.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-6, 22-27, 32-37, 53-58, 63-68, 84-89 are presented for examination.
2. This action in response to Response to Election/Restriction Filed dated on 8/7/2007.

Claims 1-6, 22-27, 32-37, 53-58, 63-68, 84-89 are elected without traverse.

Paper Submitted

3. It is hereby acknowledged that the following papers have been received and placed of record in the file:
 - a. **Information Disclosure Statements** as received on 09/13/2007, 2/13/2008 are considered.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title

5. Claims 63-68, 84-89 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Referring to claim 63, we note that a "a computer readable medium" is directed to statutory subject matter as long as the language is not supported in the Specification with non-statutory embodiments (i.e., signals, transmission mediums and the like). Applicant's specification discloses that the computer readable medium is intended to broadly encompass "transmission-type media, such as digital and analog communication links". Therefore claims 63 and its dependent claims are rejected under 35 U.S.C. 101.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-6, 22-27, 32-37, 53-58, 63-68, 84-89 are rejected under 35 U.S.C. 102(e) as being anticipated by Copeland et al., US Patent Number 6,557,076, hereinafter Copeland.
8. Referring to claim 1, Copeland teaches a method for processing objects at a data processing system in a network, the method comprising: receiving a first message at a computing device; and determining that a message header in the first message indicates that the first message relates to a fragment (Col 7 line 66 – Col 8 line 5; Col 9 lines 42-56).
9. Referring to claim 2, Copeland teaches the method of claim 1 further comprising: storing a fragment from the first message in a cache maintained by a cache management unit within the computing device, wherein the cache management unit operates equivalently in support of fragment caching operations whether the computing device acts as a client, a server, or a hub located throughout the network (Col 9 lines 13-29).
10. Referring to claim 3, Copeland teaches the method of claim 1 further comprising: determining that a message header in the first message indicates that a message body portion of the first message is a fragment (Col 7 line 66 – Col 8 line 5, Col 9 lines 42-56).

11. Referring to claim 4, Copeland teaches the method of claim 1 further comprising:
determining that a message header in the first message indicates that the fragment is cacheable (Col 7 lines 66- Col 8 line 5 Col 9 lines 48-56).
12. Referring to claim 5, Copeland teaches the method of claim 4 wherein the first message comprises an indication that the fragment is non-cacheable to non-fragment-supporting cache management units and an indication that the fragment is cacheable to fragment-supporting cache management units (page 9 line 48-50).
13. Referring to claim 6, Copeland teaches the method of claim 5 wherein the first message comprises an HTTP Cache-Control header with a no-cache directive for non-fragment-supporting cache management units and with a directive for caching the fragment for fragment-supporting cache management units (Col 15 lines 20-47).
14. Referring to claim 22, Copeland teaches the method of claim 1 further comprising:
retrieving a set of dependency identifiers from the first message, wherein a dependency identifier is generated by a server that originated the fragment (Col 10 lines 7-25, data ID corresponds to the "dependency identifier"); and storing the set of dependency identifiers in association with a source identifier for the fragment (fragment ID)(Col 10 lines 21-25).
15. Referring to claim 23, Copeland teaches the method of claim 22 further comprising:
receiving an invalidation request message; retrieving a dependency identifier from the invalidation request message; determining a set of fragments that are associated with the dependency identifier; and purging the set of fragments from the cache in response to determining the set of fragments that are associated with the dependency identifier (Col 10 lines 10-25, Col 7 line 66 – Col 8 line 5).

16. Referring to claim 24, Copeland teaches the method of claim 1 further comprising:
retrieving a set of fragment caching rules from the first message, wherein a fragment caching rule determines a manner for generating a cache identifier for the fragment (Col 9 line 13 - Col 10 line 40); and generating a cache identifier for the fragment in accordance with a fragment caching rule (Col 11 lines 15-25).
17. Referring to claim 25, Copeland teaches the method of claim 24 further comprising:
uniquely identifying the fragment using the cache identifier (Col 15 lines 34-47).
18. Referring to claim 26, Copeland teaches the method of claim 24 further comprising:
performing the storing operation using the generated cache identifier for the fragment (Col 15 lines 19-47).
19. Referring to claim 27, Copeland teaches the method of claim 24 further comprising:
obtaining at least a path portion of a URI (Uniform Resource Identifier) associated with the fragment in order to form a base cache identifier (Col 11 line 65- Col 12 line 35, Col 15 lines 19-47); and applying a fragment caching rule to the base cache identifier to form a cache identifier for the fragment, wherein a fragment caching rule comprises a set of query parameter names and/or cookie names that are used to obtain name-value pairs that are appended to the base cache identifier (Col 11 lines 15-43, Col 15 lines 19-47).
20. Referring to claims 32-37, 53-58, 63-68, 84-89 claims 32-37, 53-58, 63-68, 84-89 encompass the same scope of the invention as that of the claims 1-6, 22-27. Therefore, claims 32-37, 53-58, 63-68, 84-89 are rejected on the same ground as the claims 1-6, 22-27.

Conclusion

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21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is reminded that in amending in response to a rejection of claims, the patentable novelty must be clearly shown in view of the state of the art disclosed by the references cited and the objection made. Applicant must show how the amendments avoid such references and objections. See 37 CFR 1.111(c).
22. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Liang-che Alex Wang whose telephone number is (571)272-3992. The examiner can normally be reached on Monday thru Friday, 8:30 am to 5:00 pm.
23. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenton B Burgess can be reached on (571)272-3949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
24. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Liang-che Alex Wang
February 28, 2008

